AMENDMENTS

In the Claims:

Please replace claims 1, 5, and 13 with the following claims 1, 5, and 13:

A method to identify agents that bind to a BT-toxin receptor, said method comprising the steps of:

- (i) contacting an agent with a BT-toxin binding receptor selected from the group consisting of
- (a) a cell that has been altered to contain a nucleic acid molecule that encodes a BT-toxin receptor having the amino acid sequence of SEQ ID NO:2 and expresses said receptor;
- (b) a cell that has been altered to contain a nucleic acid molecule encoding a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said cell expresses said receptor and wherein said receptor is obtainable from an insect;
- (c) a cell that has been altered to contain a nucleic acid molecule that encodes a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said cell expresses the receptor and the receptor encoded by the nucleic acid binds to the CryIA(b) toxin;
- (d) an isolated BT-toxin receptor having an amino acid sequence of SEQ ID NO:2;
- (e) an isolated BT-toxin receptor that is encoded by a nucleic acid molecule that hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said receptor is obtainable from an insect; and
- (f) an isolated BT-toxin receptor encoded by a nucleic said molecule that hybridizes to the polynucleotide sequence of SBQ ID NO:I under stringent conditions, wherein the receptor encoded by the nucleic said binds to the CryIA(b) toxin;
 - (ii) determining whether said agent binds to said BT-toxin receptor; wherein the stringent conditions comprise:

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50% formamide, 0.1% bovine serum albumin, 0.1% Ficoll, 0.1% polyvinylpyrrolidone, 50 mM sodium phosphate (pH 6.5), 750 mM NaCl, and 75 mM sodium citrate at 42°C, with washes at 42°C in 0.2x SSC and 0.1% SDS;

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50% formamide, 5x SSC, 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5x Denhardt's solution, sonicated salmon sperm DNA (50 µg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2x SSC and 0.1% SDS;

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0.015M NaCl, 0.0015M sodium citrate, and 0.1% SDS at 50°C.

A method to identify agents that block the binding of a BT-toxin to a BT-toxin receptor, said method comprising the steps of:

- (i) contacting an agent, in the presence and absence of a BT-toxin, to a BT-toxin binding receptor or cell expressing said receptor selected from the group consisting of:
- (a) a cell that has been altered to contain a nucleic acid molecule that encodes a BT-toxin receptor having the amino acid sequence of SEQ ID NO:2 and expresses said receptor;
- (b) a cell that has been altered to contain a nucleic acid molecule that encodes a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said cell expresses said receptor and wherein said receptor is obtainable from an insect;
- (c) a cell that has been altered to contain a nucleic acid molecule encoding a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said cell expresses the receptor and the receptor encoded by the nucleic acid binds to the CryIA(b) toxin;
- (d) an isolated BT-toxin receptor having an amino acid sequence of SEQ ID NO:2:
- (e) an isolated BT-toxin receptor that is encoded by a nucleic acid molecule that hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said receptor is obtainable from an insect; and
- (f) an isolated BT-toxin receptor encoded by a nucleic acid molecule that hybridizes to the polynucleotide sequence of SEQ ID NO:1 under stringent conditions, wherein said receptor encoded by the nucleic acid binds to the CrylA(b) toxin;

3

Serial No. 09/457,864 Docket No. 27I 122003713

sd-95650

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(ii) determining whether said agent blocks the binding of said BT-toxin to said BT-toxin receptor:

wherein the stringent conditions comprise:

50% formamide, 0.1% bovine serum albumin, 0.1% Ficoll, 0.1% polyvinylpyrrolidone, 50 mM sodium phosphate (pH 6.5), 750 mM NaCl, and 75 mM sodium citrate at 42°C, with washes at 42°C in 0.2x SSC and 0.1% SDS;

50% formamide, 5x SSC, 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5x Denhardt's solution, sonicated salmon sperm DNA (50 µg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C, with washes at 42°C in 0.2x SSC and 0.1% SDS;

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0.015M NaCl, 0.0015M sodium citrate, and 0.1% SDS at 50°C.

A method to produce a BT-toxin receptor protein, or a fragment thereof, said method comprising the steps of:

- culturing a coll that has been altered to contain a nucleic acid molecule that encodes a BT-toxin receptor protein, or BT-toxin binding fragment thereof, under conditions suitable for expression of said receptor protein or fragment thereof, wherein said cell has been altered to contain a nucleic acid molecule selected from the group consisting of
- (a) a nucleic acid molecule that encodes the amino acid sequence of SEQ ID NO:2:
- (b) a nucleic acid molecule lencoding a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polynucleothic sequence of SEQ ID NO:1 under stringent conditions, and wherein said receptor is obtainable from an insect; and
- (c) a nucleic acid molecule encoding a BT-toxin receptor, wherein said nucleic acid molecule hybridizes to the polymucleotide sequence of SEQ ID NO: I under stringent conditions, wherein the receptor encoded by the nucleic acid binds to the CryIA(b) toxin;
 - (ii) isolating said BT-toxin receptor protein or fragment; wherein the stringent conditions comprise:

50% formamide, 0.1% bovine serum albumin, 0.1% Ficoll, 0.1% polyvinylpyrrolidone, 50 mM sodium phosphate (pH\6.5), 750 mM NaCl, and 75 mM sodium citrate at 42°C, with washes at 42°C in 0.2x SSC and 0.1% SDS;

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Serial No. 09/457,864 Docket No. 271122003713

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50% formamide, 5x SSC, 50 mM sodium phosphate (pH 6.8), 0.1% sodium pyrophosphate, 5x Denhardt's solution, sonicated salmon sperm DNA (50 µg/ml), 0.1% SDS, and 10% dextran sulfate at 42°C with washes at 42°C in 0.2x SSC and 0.1% SDS,

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0.015M NaCl, 0.0015M sodium citrate, and 0.1% SDS at 50°C.

5

Serial No. 09/457,864 Docket No. 271122003713